

NATIONAL
DEVELOPMENT
PLAN 2020



EUROPEAN UNION

European Regional
Development Fund

I N V E S T I N G I N Y O U R F U T U R E

PROJECT TITLE: Large area deposition technologies of multifunctional antibacterial and antiviral nanocoatings

Project No: 1.1.1.1/21/A/050

Duration: 01.01.2022. – 30.11.2023.

Project Leader: Institute of Solid State Physics, University of Latvia, Dr. habil. Phys. Juris Purans.

Project partners: Sidrabe Vacuum SIA, Dr.Phys. Andris Fedotovs
Latvian Biomedical Research and Study Centre (LBMC)

Total budget: 500 000 EUR

01.02.2022

Project description:

The aim of this research project is to develop advanced roll-to-roll physical vapour deposition (PVD) technology for large scale production of a new type of multifunctional antibacterial and antiviral (MABAV) coatings.

Within the framework of this research project an advanced *roll-to-roll* physical vapour deposition technology for large scale production of a new type of multifunctional antibacterial and antiviral (MABAV) coatings will be developed.

Applications: smart windows/glass, smart foils/sheets (as partitions and barriers in public places) and transparent electronics applications, including medical devices, with the aim to prevent the diseases in terms of reduction of bacteria and virus prevalence with attention to the SARS-CoV-2 to limit and reduce the spread of this virus and consequently caused illness COVID-19.